

#409

IMP H & J

HOURLY AVERAGED SOLAR PLASMA

72-073A-02A

73-078A-02A

1-2 MINUTE RESOLUTION PLASMA PARAMETER DATA  
73-078A-02G

FINE RESOLUTION PLASMA DATA FROM MIT  
(1-MIN PLASMA PARAMETER)  
73-078A-02L

IMP-H & J

HOURLY AVG. SOLAR PLASMA  
INTERPLANETARY HOURLY AVG.

72-073A-02A  
73-078A-02A

THESE DATA SETS HAVE BEEN RESTORED. THERE WERE ORIGINALLY FIVE 9-TRACK 6250 BPI TAPES, WRITTEN IN EBCDIC. THERE IS ONE RESTORED TAPE WRITTEN IN ASCII. SINCE THE TAPES WERE ORIGINALLY RESTORED, FILES 2-9 OF THE DATA HAVE BEEN REPLACED. THERE ARE NO D NUMBERS FOR FILES 2-9 DUE TO THE FACT THAT THE DATA WAS RECEIVED ELECTRONICALLY. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. FILE ONE IS IMP-H DATA AND FILES 2-9 ARE IMP-J DATA. THE ORIGINAL TAPES WERE CREATED ON AN IBM 360 COMPUTER AND WERE RESTORED ON AN IBM 9021 COMPUTER. THE DR AND DS NUMBER ALONG WITH THE CORRESPONDING D NUMBER AND TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR004836	DS004836	D030506	1	01/03/76 - 01/24/77
			2	11/04/73 - 12/30/75
			3	01/03/76 - 12/13/78
			4	01/12/79 - 12/31/81
			5	01/01/82 - 12/31/84
			6	01/01/85 - 12/31/87
			7	01/01/88 - 12/31/90
			8	01/01/91 - 12/31/93
			9	01/01/94 - 01/14/94

REQ. AGENT  
CMP  
RSH  
DHG

RAND NO.  
RC8205

ACQ. AGENT  
DJH  
DAC

IMP H & J

HOURLY AVERAGED SOLAR PLASMA DATA

72-073A-02A (IMP H)

73-078A-02A (IMP J)

This data set consists of ~~8~~ <sup>5</sup> tapes. D-30506 is ~~X~~ track, <sup>9</sup> ~~800~~ <sup>6250</sup> BPI, BCD with 2 files, a logical record size of 106 bytes and blocksize of 10600 bytes. The tape contains data from both IMP H (file 2) and IMP J (file 1). The remaining tapes in this data set are 9 track, 6250 bpi, EBCDIC, with one file, logical record length of 430 bytes, and blocksize of 4300 bytes. The 'D' and 'C' numbers and time spans follow.

<u>D#</u>	<u>C#</u>	<u>Time Span</u>
D-30506	C-19498	01/01/76 - 03/19/77 (File 1/IMP J) 01/03/76 - 01/24/77 (File 2/IMP H)
D-64143	C-24185	12/28/81 - 07/13/84
D-73713	C-25931	02/19/83 - 11/14/86
D-76480	C-26667	11/14/86 - 10/18/87
D-79317	C-27101	10/19/87 - 11/28/88

The tape characteristics for D-30506, C-19498:

9  
TRACKS = ~~9~~ TRACK  
DENSITY = 800 BPI 6250  
RECFM = FB  
LRECL = 106 BYTES  
BLKSIZE = 10600 BYTES  
TRTCH = ET

The tape characteristics for D-64143:

TRACKS = 9 TRACK  
DENSITY = 6250 BPI  
RECFM = FB  
LRECL = 430 BYTES  
BLKSIZE = 4300 BYTES

The tape characteristics for C-24185:

TRACKS = 9 TRACK  
DENSITY = 1600 BPI  
RECFM = FB  
LRECL = 430 BYTES  
BLKSIZE = 4300 BYTES

Format is as follows: (Good ONLY FOR D-30506)

<u>ITEM</u>	<u>TYPE</u>	<u>VARIABLE</u>
1	A4	S/C NAME (IMP-7 OR IMP-8)
2	I4	YEAR
3	I4	DAY OF YEAR (JAN. 1 = DAY 1)
4	I4	HOUR (0 - 23)
5	F10.3	
6	F10.3	SPEED
7	F10.3	Average Standard deviation Number of values averaged
8	F10.3	"
9	F10.3	DENSITY
10	F10.3	"
11	F10.3	"
12	F10.3	THERMAL SPEED
13	F10.3	"

IMP Hourly Average MIT Plasma Tape Format

73-078A-02A

<u>ITEM</u>	<u>TYPE</u>	<u>VARIABLE</u>	<u>UNITS</u>
1	A4	S/C Name	----
2	I4	Year (i.e. 1974)	----
3	I4	Day (Jan 1 = day 1)	----
4	I4	Hour (0 to 23)	----
5	F10.3	Bulk Speed	Average km/sec
6	F10.3	"	Standard Deviation km/sec
7	F10.3	"	Number of values averaged ----
8	F10.3	Density	Average cm <sup>-3</sup>
9	F10.3	"	Standard Deviation cm <sup>-3</sup>
10	F10.3	"	Number of values averaged ----
11	F10.3	Thermal	Average km/sec
12	F10.3	Speed	Standard Deviation km/sec
13	F10.3	"	Number of values averaged ----
14	F10.3	Flux	Average cm <sup>-2</sup> sec <sup>-1</sup>
15	F10.3	"	Standard Deviation cm <sup>-2</sup> sec <sup>-1</sup>
16	F10.3	"	Number of values averaged ----
17	F10.3	Thermal	Average ----
18	F10.3	Speed/Bulk	Standard Deviation ----
19	F10.3	Speed	Number of values averaged ----
20	F10.3	E-W Angle	Average degrees
21	F10.3	(+ from	Standard Deviation degrees
22	F10.3	West)	Number of values averaged ----
23	F10.3	N-S Angle	Average degrees
24	F10.3	(+ from	Standard Deviation degrees
25	F10.3	South)	Number of values averaged ----
26	F10.3	V <sub>t</sub>	Average km/sec
27	F10.3	"	Standard Deviation km/sec
28	F10.3	"	Number of values averaged ----
29	F10.3	V <sub>n</sub>	Average km/sec
30	F10.3	"	Standard Deviation km/sec
31	F10.3	"	Number of values averaged ----
32	F12.3	(-45,45)	Average #/cm <sup>2</sup> sec
33	F12.3	S/C	Standard Deviation #/cm <sup>2</sup> sec
34	F12.3	Longitude	Number of values averaged ----
35	F12.3	(45,135)	Average #/cm <sup>2</sup> sec
36	F12.3	S/C	Standard Deviation #/cm <sup>2</sup> sec
37	F12.3	Longitude	Number of values averaged ----
38	F12.3	(135,-135)	Average #/cm <sup>2</sup> sec
39	F12.3	S/C	Standard Deviation #/cm <sup>2</sup> sec
40	F12.3	Longitude	Number of values averaged ----
41	F12.3	(-135,-45)	Average #/cm <sup>2</sup> sec
42	F12.3	S/C	Standard Deviation #/cm <sup>2</sup> sec
43	F12.3	Longitude	Number of values averaged ----

Flux  
in 4  
Sectors

INPUT PARAMETERS ARE: ED FL=1=1

TAPE NO. 1 FILE NO. 1

RECORD LENGTH

4300

IMP81981	362	16	0.388E+03	0.308E+02	0.270E+02	0.134E+02	0.375E+01	0.270E+02	0.471E+02	0.159E+02	0.
270E+02	0.501E+04	0.141E+04	0.270E+02	0.121E+00	0.401E+00	0.270E+02	0.714E+01	0.840E+01	0.270E+02	0.	
968E+01	0.744E+01	0.270E+02	0.463E+02	0.560E+02	0.270E+02	0.621E+02	0.495E+02	0.270E+02	0.148E+0	0.	
9	0.642E+09	0.460E+02	0.815E+07	0.549E+08	0.460E+02	0.460E+02	0.815E+07	0.549E+08	0.460E+02	0.	
0.857E+07	0.576E+08	0.460E+02	0.2IMP81981	362	17	0.390E+03	0.791E+01	0.340E+02	0.127E+02	0.163E+0	
1	0.340E+02	0.481E+02	0.939E+01	0.340E+02	0.491E+04	0.667E+03	0.340E+02	0.123E+00	0.243E-01	0.340E+	
0.2	0.479E+01	0.182E+01	0.340E+02	0.619E+01	0.239E+01	0.340E+02	0.324E+02	0.126E+02	0.340E+02	0.418E+	
+0.2	0.160E+02	0.340E+02	0.132E+09	0.502E+09	0.370E+02	0.370E+02	0.101E+01	0.612E+08	0.370E+02	0.	
*306E+08	*0.185E+09	0.370E+02	0.106E+08	0.643E+08	0.370E+02	0.106E+08	0.329E+04	0.613E+03	0.300E+03	0.10	
2E+02	0.350E+02	0.818E+01	0.159E+01	0.350E+02	0.457E+02	0.527E+01	0.350E+02	0.329E+04	0.613E+03	0.3	
50E+02	0.112E+00	0.134E-01	0.350E+02	0.536E+01	0.102E+01	0.350E+02	0.685E+01	0.259E+01	0.350E+02	0.	
378E+02	0.726E+01	0.350E+02	0.485E+02	0.185E+02	0.350E+02	0.495E+08	0.695E+08	0.360E+02	0.360E+02	0.6	
44E+05	0.137E+03	0.360E+02	0.644E+05	0.137E+03	0.360E+02	0.644E+05	0.137E+05	0.676E+05	0.150E+03	0.360E+	
+0.2IMP81981	362	19	0.417E+03	0.125E+02	0.300E+02	0.660E+01	0.123E+01	0.300E+02	0.518E+02	0.156E+02	0.
0.300E+02	0.271E+04	0.563E+03	0.300E+02	0.124E+00	0.351E-01	0.300E+02	0.370E+01	0.202E+01	0.300E+01	0.	
2	0.847E+01	0.456E+01	0.300E+02	0.265E+02	0.145E+02	0.300E+02	0.614E+02	0.333E+02	0.300E+02	0.211	
E+09	0.103E+10	0.320E+02	0.354E+08	0.200E+09	0.320E+02	0.320E+02	0.117E+08	0.658E+08	0.320E+02	0.	
2	0.123E+08	0.691E+08	0.320E+02	0.138E+02	0.259E+01	0.643E+03	0.105E+01	0.700E+01	0.633E+01	0.158	
E+01	0.700E+01	0.406E+02	0.138E+02	0.700E+01	0.541E+01	0.700E+01	0.700E+01	0.977E-01	0.338E-01	0.7	
0E+01	0.391E+01	0.194E+01	0.700E+01	0.541E+01	0.700E+01	0.700E+01	0.700E+01	0.977E-01	0.338E-01	0.5	
69E+02	0.399E+02	0.700E+01	0.309E+08	0.461E+07	0.700E+01	0.644E+05	0.108E+03	0.700E+01	0.700E+01	0.	
0	644E+05	0.108E+03	0.700E+01	0.677E+05	0.691E+02	0.700E+01	0.700E+01	0.700E+01	0.700E+01	0.	
709E+01	0.140E+02	0.634E+01	0.152E+01	0.140E+02	0.418E+02	0.134E+02	0.140E+02	0.263E+04	0.635E+03	0.	
0	140E+02	0.997E-01	0.309E-01	0.140E+02	0.328E+01	0.195E+01	0.140E+02	0.519E+01	0.455E+01	0.140E+02	
-0.237E+02	0.141E+02	0.140E+02	0.377E+02	0.140E+02	0.140E+02	0.140E+02	0.310E+09	0.116E+10	0.170E+02	0.	
0.220E+08	0.903E+08	0.170E+02	0.151E+08	0.619E+08	0.170E+02	0.603E+08	0.248E+09	0.1	0.248E+09	0.	
70E+02IMP81981	362	23	0.420E+03	0.157E+02	0.170E+02	0.742E+01	0.115E+01	0.170E+02	0.398E+02	0.708E	
+0.1	0.170E+02	0.310E+04	0.531E+03	0.170E+02	0.946E-01	0.164E-01	0.170E+02	0.486E+01	0.141E+01	0.170	
E+02	0.127E+01	0.543E+01	0.170E+02	0.354E+02	0.104E+02	0.170E+02	0.938E+01	0.395E+02	0.170E+02	0.	
34E+08	0.400E+07	0.170E+02	0.644E+05	0.143E+03	0.170E+02	0.644E+05	0.644E+05	0.143E+03	0.170	0.	
E+02	0	676E+05	0.111E+03	0.170E+02	0.363E+02	0.140E+02	0.140E+02	0.200E+01	0.455E+01	0.140E+02	
228E+01	0.200E+01	0.431E+02	0.274E+01	0.420E+03	0.157E+02	0.170E+02	0.603E+08	0.104E+00	0.354E-02	0.	
*200E+01	0.221E+01	0.184E+01	0.200E+01	0.284E+01	0.216E+01	0.200E+01	0.158E+02	0.200E+01	0.200E+01	0.	
0.207E+02	0.162E+02	0.200E+02	0.374E+08	0.793E+07	0.200E+01	0.644E+05	0.644E+05	0.200E+01	0.200E+01	0.	
01	0.644E+05	0.640E+02	0.200E+01	0.676E+05	0.0	0.200E+01	0.1IMP81981	363	0.576E+0	0.	
3	0.961E+01	0.240E+02	0.194E+02	0.242E+01	0.240E+02	0.902E+02	0.160E+02	0.240E+02	0.111E+05	0.143E+	
4	0.240E+02	0.157E+00	0.277E-01	0.240E+02	0.273E+01	0.189E+01	0.240E+02	0.786E+01	0.191E+01	0.240E+	
+0.2	0.270E+02	0.188E+02	0.240E+02	0.785E+02	0.187E+02	0.240E+02	0.470E+09	0.219E+10	0.370E+02	0.	
0	1.37E+08	0.832E+08	0.370E+02	0.101E+08	0.612E+08	0.370E+02	0.107E+08	0.643E+08	0.	0.	
3	0.370E+02IMP81981	363	11	0.606E+03	0.349E+01	0.180E+02	0.194E+02	0.697E+02	0.180E+02	0.650E+02	0.
68E+01	0.180E+02	0.117E+05	0.433E+03	0.180E+02	0.107E+00	0.145E-01	0.180E+02	0.239E+01	0.644E+00	0.	
180E+02	0.376E+01	0.159E+01	0.180E+02	0.252E+02	0.683E+01	0.180E+02	0.397E+02	0.168E+02	0.180E+02	0.	
0.117E+09	0.515E+07	0.189E+02	0.644E+05	0.878E+02	0.181E+09	0.159E+05	0.644E+05	0.878E+02	0.180E+02	0.	
180E+02	0.676E+05	0.0	0.180E+02	0.180E+05	0.180E+02	0.180E+05	0.678E+05	0.176E+03	0.180E+02	0.	

TAPE NO. 1 FILE NO. 1

RECORD LENGTH

860

IMP81984	195	6	0.430E+03	0.832E+01	0.700E+01	0.426E+02	0.320E+01	0.700E+01	0.393E+02	0.304E+01	0.
700E+01	0.183E+05	0.124E+04	0.700E+01	0.914E-01	0.672E-02	0.700E+01	0.256E+01	0.102E+01	0.700E+01	0.	
789E+00	0.182E+01	0.700E+01	0.193E+02	0.777E+01	0.700E+01	0.590E+01	0.138E+02	0.700E+01	0.235E+0	0.	
9	0.139E+09	0.800E+01	0.646E+05	0.726E+02	0.646E+05	0.800E+01	0.646E+05	0.726E+02	0.800E+01	0.	
0.678E+05	0.593E+02	0.800E+01	0.188E+02	0.785E+02	0.187E+02	0.240E+02	0.470E+09	0.219E+10	0.370E+02	0.	
1	0.180E+02	0.517E+02	0.728E+01	0.180E+02	0.183E+05	0.211E+04	0.180E+02	0.157E-01	0.180E+01	0.	
0.202E+01	0.220E+01	0.180E+02	0.374E+00	0.284E+01	0.180E+02	0.150E+02	0.163E+02	0.180E+02	0.289E	0.	
+0.1	0.209E+02	0.180E+02	0.180E+02	0.180E+02	0.180E+02	0.180E+02	0.644E+05	0.176E+03	0.180E+02	0.	
646E+05	0.176E+03	0.0	0.180E+02	0.180E+05	0.180E+02	0.180E+05	0.678E+05	0.164E+05	0.180E+02	0.	

\*\*\*\*\* JOB DONE. \$WEO LPS

\$JOB 13:32:16  
\$NOPT \*\*\*\*\* LIST OF X-424 \*\*\*\*\*  
\$ASS IN MSS  
\$EXEC LIST BS

) INPUT PARAMETERS ARE: BC FL=1=1, 2.

TAPE NO.	RECORD	FILE NO.	LENGTH	10600	1	HR
IMP81976	1	1	0.0	0.0	0.0	
0.0 IMP81976	1	1	329.729	19.814	13.000	9.825
9.23 13.000 IMP81976	3	1	313.342	25.880	10.000	10.683
8 16.745 10.000 IMP81976	3	3	335.732	24.301	18.000	3.811
53.604 9.564 18.000 IMP81976	3	4	339.731	4.200	15.000	27.795
5.000 55.636 6.843 15.000 IMP81976	3	5	341.583	5.768	35.000	21.509
62.35.000 53.565 8.355 35.000 IMP81976	3	6	339.751	15.460	10.000	20.486
5.993 10.000 59.022 13.333 10.000 IMP81976	3	7	340.427	15.644	12.000	
15.865 4.689 12.000 58.101 17.715 12.000 IMP81976	3	8	402.966	16.652	11.	
0.0 13.515 3.025 11.000 75.953 12.500 11.000 IMP81976	3	9	412.524	10.997		
16.000 26.001 2.882 16.000 86.407 11.507 16.000 IMP81976	3	10	436.016			
26.294 22.000 25.713 9.403 22.000 92.146 37.180						
924 23.645 12.000 19.733 6.156 12.000 98.138						
2 531.383 30.639 19.600 17.092 9.868 19.000 65.699						
3 512.242 19.510 30.000 13.694 2.822 30.000 89.815						
MP81976 3 14 472.438 15.173 23.000 12.428 2.198 23.000 89.687						
23.000 IMP81976 3 15 466.183 19.317 24.000 8.439 2.428 24.000 86.011						
146 24.000 IMP81976 3 16 480.419 34.124 29.000 8.439 2.428 24.000 86.011						
112.818 29.000 IMP81976 3 17 518.292 30.845 21.000 11.706 7.32 29.000 106.210						
86.840 24.034 21.000 IMP81976 3 18 546.527 19.797 49.000 19.221 4.884 21.000						
0.000 78.716 29.170 49.000 IMP81976 3 19 536.037 14.852 51.000 15.781 7.679 49						
6 51.000 69.155 9.930 51.000 IMP81976 3 20 535.859 13.278 51.000 14.434 2.90						
1 1.859 51.000 65.578 8.919 51.000 IMP81976 3 21 525.049 22.508 22.000 1						
7.262 9.172 22.000 72.738 26.258 22.000 IMP81976 3 22 525.552 6.416 26.0						
10 11.609 1.565 26.000 58.110 5.761 26.000 IMP81976 3 23 521.185 9.080						
52.000 13.760 4.535 52.000 60.588 3.627 52.000 IMP81976 4 0 509.323						
24.057 41.000 15.349 5.093 41.000 67.886 16.069 41.000 IMP81976 4 1 509.						
185 10.700 51.000 11.181 3.889 51.000 51.551 8.730 51.000 IMP81976 4 2						
504.313 13.875 50.000 12.276 4.565 50.000 58.462 20.499 50.000 IMP81976						
4 3 508.459 18.817 42.000 10.545 4.719 42.000 54.058 16.141 42.000 IMP81976						
MP81976 4 4 504.236 12.821 50.000 11.746 5.372 50.000 54.408 15.275						
0.000 IMP81976 4 528.967 19.069 50.000 8.761 1.591 50.000 51.306 10.2						
56 50.000 IMP81976 4 543.257 12.169 52.000 8.903 1.475 52.000 51.499 13.0						
5.276 52.000 IMP81976 4 7 519.616 17.280 55.000 9.350 2.227 55.000						
53.835 9.782 55.000 IMP81976 4 8 515.670 19.165 48.000 8.923 2.654 48.						
7.00 53.245 19.360 48.000 IMP81976 4 9 503.436 10.920 50.000 8.562 1.080						
50.000 44.744 6.611 50.000 IMP81976 4 10 514.974 9.622 51.000 7.643						
0.715 51.000 4.9.014 5.165 51.000 IMP81976 4 11 507.373 9.995 41.000 7						
389 1.124 41.000 41.306 7.803 41.000 IMP81976 4 12 511.605 8.363 45.00						
0.000 IMP81976 4 1.041 4.5.000 44.259 8.690 45.000 IMP81976 4 13 517.756 11.105						
46.000 8.053 1.209 46.000 44.178 9.179 46.000 IMP81976 4 14 531.626						
1.488 40.000 8.826 0.481 40.000 49.437 2.842 40.000 IMP81976 4 15 530.2						
521.521 10.823 39.000 9.235 0.584 40.000 49.231 4.957 40.000 IMP81976 4 16						
81976 4 18 519.427 11.201 45.000 9.843 1.218 49.000 54.575 5.399 49.000 IMP						
0.000 IMP81976 4 19 531.051 10.823 56.000 8.902 0.940 56.000 54.330 10.733						
6 56.000 IMP81976 4 20 536.050 15.716 47.000 8.147 0.465 47.000 53.150 5.35						
5.687 47.000 IMP81976 4 21 522.740 12.144 46.000 7.734 1.096 46.000 53.145						
9.829 10.004 46.000 IMP81976 4 22 539.490 17.082 4.10 509.094 0.679 43.0						
0.0 46.628 4.191 43.000 IMP81976 4 23 529.877 10.366 25.000 6.995 0.998						
25.000 46.085 4.178 25.000 IMP81976 5 0 531.390 1.6458 48.000 6.732						
0.747 48.000 44.279 3.475 48.000 IMP81976 5 1 514.538 13.335 41.000 6.						
733 1.416 41.000 44.381 7.148 41.000 IMP81976 5 2 519.785 14.477 44.000						
7.365 2.156 44.000 44.139 11.227 44.000 IMP81976 5 3 520.228 14.259						

D-30560  
File 800, SCS, 256

IMP.748

REQ. AGENT

DHG  
SAR  
SAR

RAND NO.  
V0309  
V0348  
V0352

ACQ. AGENT  
DAC  
JHK  
JHK

IMP J

## 1-2 MINUTE RESOLUTION PLASMA PARAMETER DATA

73-078A-02G

This data set consists of five tapes, created on an IBM 360. The format is 9-track, 6250 BPI, ASCII. They have one file each. The 'D' and 'C' numbers and time span are as follows:

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-68313	C-25075	10/31/73 - 02/20/75
D-74124	C-26187	01/06/77 - 04/11/78
D-74123	C-26186	04/12/78 - 09/02/82
D-74125	C-26188 —	02/17/83 - 12/10/85
D-74596	C-26284 —	12/11/85 - 10/18/87
D-79751	C-27527	10/19/87 - 05/16/89

NOTE: THIS DATASET (73-078A-02G) HAS FULL ORBIT COVERAGE; IT DOES NOT CONTAIN SOLAR WIND TIMES ONLY.

September 1986

## IMP TAPE FORMAT DESCRIPTION

Type of Tape: SPectrum Analysis Tape (SPAT)

Content: Fine time resolution plasma parameters for IMP 8. Only tracking mode, non-tracking mode or acquisition mode spectra are used.

Origin: Generated by program IMPANAL with a formatted write using DD UNIT=T6250,LABEL=(,BLP),DCB=(BLKSIZE=9500,LRECL=190, RECFM=FB,OPTCD=Q)

Format: 9 track; odd parity; 6250 BPI; written in ASCII.

1. Tape terminates with a double end of file; there is no internal file structure.
2. There are 50 logical records per tape block; each block is 9500 bytes long.
3. Each logical record is 23 items (190 bytes) long (written in 8I5, 15E10.3 format):

Item	Name	Description
1	MODE	analyzed spectrum flag (1 = AQM, 2 = TM, 3 = NTM)
2	IYR	4 digit year
3	IDOY	day of year (Jan. 1 = 1)
4	IHR	hour of day (0 to 23)
5	IMIN	minute of hour (0 to 59)
6	ISEC	second of minute (0 to 59)
7	IMP	spacecraft number (7 or 8)
8	ITYP	spectrum type (1 = Tracking Mode Spectrum, 3 = Non-Tracking Mode, 4 = Acquisition Mode Spectrum)
9	FLUXS	(or "VINT") flux from (-45, 45) s/c longitude
10	VFIT	bulk speed in s/c frame from either 3 point fit
11	VEST	to Maxwellian or method of moments (see IMPANAL) (at M.I.T. we generally use the fits)
12	FLUXY	(or "WINT") flux from (45, 135) s/c longitude
13	WFIT	thermal speed (ref. VFIT)
14	WEST	
15	FLUXAS	(or "DINT") flux from (135, -135) s/c longitude
16	DFIT	density (ref. VFIT)
17	DEST	

Item	Name	Description
18	FLUXAY	(or "AINT") flux from (-135, -45) s/c longitude
19	ALFRAC	(or "AFIT") = + 100.0; alpha fraction; ratio of alpha current to proton peak current
20	AEST	N/S flow angle (positive from south) using nominal spin axis orientation
21	PEAK	(or "BINT") 4 digit peak flag (see IMPANAL)
22	BFIT	E/W flow angle (positive from west) (ref. VFIT)
23	BEST	

NOTE\*\* That, owing to different gain shifts in the electrons associated with the two semicircular Faraday cup collector plates, there is offset in the apparent solar wind flow latitude. For the period 1977 through 1989, this offset has been approximately constant at about 5 degrees positive. This 5.0 should be subtracted from the flow latitude values contained on these tapes to get the "true" flow latitudes.

(JHK, 10/89)

INPUT-  
TAPENO. 1 FILE NO. 1  
RECORD 1 LENGTH 9500

3 0.667E+05 C.364E+01 0.527E+01 0.711E+05 0.367E+00 0.195E+02 0.111E+04 0.360E+01 0.124E+02 0.106E+00

73 -304 -20 23 39 8 4 0.255E+08 0.329E+03 0.408E+03 0.670E+05 0.441E+02 0.128E+03 0.670E+00

+05 0.206E+01 0.605E+01 0.704E+05 0.144E+00 0.113E+02 0.111E+04 0.144E+02 0.152E+02 0.2 1973 304

20 26 8 1 0.157E+08 0.0 0.389E+03 0.667E+05 0.0 0.844E+02 0.667E+05 0.0

6 37 6 1 0.181E+08 0.0 0.811E+02 0.100E+03 0.137E+02 2 1973 304 20 2

0 0.408E+01 0.701E+05 0.353E+00 0.184E+02 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.0

8 1 0.159E+08 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.0

0 0.701E+05-0.100E+03-0.100E+03 0.511E+04-0.100E+03-0.100E+03 2 1973 304 20 27

0 0.167E+08 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.0

5-0.100E+03-0.100E+03 0.411E+04-0.100E+03 0.3-0.100E+03 2 1973 304 20 28

0 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.0

+03-0.100E+03 0.621E+04-0.100E+03-0.100E+03 2 1973 304 20 28

0 0.336E+03 0.667E+05 0.0 0.768E+02 0.6667E+05 0.0 0.490E+01 0.701E+05 0.437E+00 0.16

8E+02 0.621E+04-0.10CE+03 0.144E+02 2 1973 304 20 29

0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.0

421E+04-0.100E+03-0.100E+03 2 1973 304 20 29

0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.0

\* 0.134E+02 0.563E+02 0.713E+02 0.6667E+05 0.371E+01 0.467E+01 0.701E+05 0.275E+00 0.147E+02 0.511E+04

0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

3-0.100E+03 2 1973 304 20 30

0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

+03 2 1973 354 20 31

0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.0

1973 304 20 31

0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

0 0.57E+05 0.0 0.57E+05 0.0 0.57E+05 0.0 0.57E+05 0.0 0.57E+05 0.0 0.0

0 0.20 45 2 8 4 0.255E+08 0.318E+03 0.335E+03 0.6567E+05 0.5567E+02 0.970E+02 0.567E+05 0.0

0 0.446E+01 0.714E+01 0.701E+05 0.511E+00 0.102E+02 0.111E+04 0.2 0.208E+02 0.196E+02 3 1973 304 20

49 39 8 3 0.667E+05 0.321E+03 0.342E+03 0.6667E+05 0.644E+02 0.951E+02 0.667E+05 0.535E+01

0 0.730E+01 0.701E+05 0.491E+00-0.100E+03 0.111E+04 0.210E+02 0.222E+02 1 1973 304 20 54 3

3 8 4 0.235E+08 0.340E+03 0.358E+03 0.6667E+05 0.105E+03 0.886E+02 0.6667E+05 0.686E+01 0.589E+00

0 0.1 0.701E+05 0.167E+00 0.770E+00 0.701E+04 0.220E+02 0.210E+02 2 1973 304 20 57 14 8

1 0.0.171E+08 0.0 0.347E+03 0.6667E+05 0.0 0.719E+02 0.6667E+05 0.0 0.501E+01 0.701

E+05 0.382E+00 0.475E+01 0.911E+04-0.100E+03 0.201E+02 2 1973 304 20 57 42 8

0E+08 0.0 0.328E+03 0.6667E+05 0.0 0.703E+02 0.6667E+05 0.0 0.524E+01 0.701E+05 0.2

15E+30 0.569E+01 0.611E+04-0.100E+03 0.202E+02 2 1973 304 20 58 12 8 1 0.180E+08 0.0

0 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.701E+05-0.100E+03-0.100E+03 0.0

\* 100E+03 0.511E+04-0.100E+03-0.100E+03 2 1973 304 20 58 40 8 0.701E+05-0.100E+03-0.100E+03

0 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.701E+05-0.100E+03-0.100E+03

0 0.611E+04-0.100E+03-0.100E+03 2 1973 304 20 59 9 8 1 0.172E+08 0.0 0.0

0 0.6667E+05 0.0 0.6667E+05 0.0 0.6667E+05 0.0 0.701E+05-0.100E+03-0.100E+03 0.711E+

0 0.100E+03-0.120E+03 2 1973 304 20 59 37 8 1 0.168E+08 0.0 0.319E+03 0.6667E

+05 0.0 0.689E+02 0.6667E+05 0.0 0.524E+01 0.701E+05 0.214E+00 0.443E+01 0.711E+04-0.100

E+03 0.213E+02 2 1973 304 21 0 0.193E+08 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0

0 0.0 0.6667E+05 0.0 0.6667E+05 0.0 0.701E+05-0.100E+03-0.100E+03 0.0 0.111E+03-0.100E+03-0.1

00E+03 2 1973 304 21 0 35 8 1 0.194E+08 0.0 0.701E+05-0.100E+03-0.100E+03 0.0 0.667E+05 0.0

0 0.667E+05 0.0 0.701E+05-0.100E+03 0.211E+04 0.211E+04-0.100E+03-0.100E+03 0.0 0.667E+05 0.0

21 2 8 1 0.199E+08 0.295E+03 0.311E+03 0.6667E+05 0.552E+02 0.674E+02 0.667E+05 0.469E

0 0.667E+05 0.0 0.701E+05 0.2299E+00 0.721E+04 0.225E+02 0.206E+02 1 1973 304 21 6

304 21 1 32 8 1 0.191E+08 0.0 0.6667E+05 0.0 0.701E+05 0.0 0.6667E+05 0.0 0.6667E+05 0.0

5 0.0 0.6667E+05 0.0 0.701E+05-0.100E+03 0.211E+04 0.211E+04-0.100E+03-0.100E+03 0.0 0.6667E+05 0.0

21 2 8 1 0.198E+08 0.311E+03 0.311E+03 0.6667E+05 0.552E+02 0.674E+02 0.667E+05 0.469E

0 0.667E+05 0.0 0.701E+05 0.2399E+00 0.722E+04 0.225E+02 0.206E+02 1 1973 304 21 6

7 8 4 0.219E+08 0.321E+03 0.337E+03 0.6667E+05 0.558E+02 0.674E+02 0.667E+05 0.469E

4E+01 0.701E+05 0.347E+00 0.711E+04 0.111E+04 0.192E+02 0.180E+02 0.180E+02 1 1973 304 21 6

8 4 0.212E+08 0.315E+03 0.317E+03 0.667E+05 0.493E+02 0.802E+02 0.667E+05 0.401E+01 0.587E+01 0.

701E+05 0.204E+02 0.766E+01 C.111E+04 0.187E+02 0.173E+02 3 1973 304 23 17 43 8 3 0

657E+05 0.443E+03 0.453E+03 0.667E+05 J.143E+03 0.979E+02 0.667E+05 0.431E+01 0.320E+01 0.701E+05

0.719E+01-0.100E+03 0.111E+04 0.225E+02 0.225E+02 3 1973 304 23 21 52 8 3 0.179E+07

INPUT-  
TAPENO. 1 FILE NO. 1  
RECORD 1 LENGTH 9500

3 0.667E+05 C.364E+01 0.527E+01 0.711E+05 0.367E+00 0.195E+02 0.111E+04 0.360E+01 0.124E+02 0.106E+00

73 -304 -20 23 39 8 4 0.255E+08 0.329E+03 0.408E+03 0.670E+05 0.441E+02 0.128E+03 0.670E+00

+05 0.206E+01 0.605E+01 0.704E+05 0.144E+00 0.113E+02 0.111E+04 0.144E+02 0.152E+02 0.2 1973 304

20 26 8 1 0.157E+08 0.0 0.389E+03 0.667E+05 0.0 0.844E+02 0.667E+05 0.0 0.667E+05 0.0

6 37 6 1 0.181E+08 0.0 0.811E+02 0.100E+03 0.137E+02 2 1973 304 20 27

0 0.408E+01 0.701E+05 0.353E+00 0.184E+02 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0

8 1 0.159E+08 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.0

0 0.701E+05-0.100E+03-0.100E+03 0.511E+04-0.100E+03-0.100E+03 2 1973 304 20 27

0 0.167E+08 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.0

5-0.100E+03-0.100E+03 0.411E+04-0.100E+03 0.3-0.100E+03 2 1973 304 20 28

0 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.0

+03-0.100E+03 0.621E+04-0.100E+03-0.100E+03 2 1973 304 20 28

0 0.336E+03 0.667E+05 0.0 0.768E+02 0.6667E+05 0.0 0.490E+01 0.701E+05 0.437E+00 0.16

8E+02 0.621E+04-0.10CE+03 0.144E+02 2 1973 304 20 29

0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.0

421E+04-0.100E+03-0.100E+03 2 1973 304 20 29

0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.0

667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.0

\* 0.134E+02 0.563E+02 0.713E+02 0.6667E+05 0.371E+01 0.467E+01 0.701E+05 0.275E+00 0.147E+02 0.511E+04

0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

3-0.100E+03 2 1973 304 20 30

0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

+03 2 1973 354 20 31

0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.667E+05 0.0 0.0

1973 304 20 31

0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.0

1973 304 20 31

0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.0

1973 304 20 31

0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.0

1973 304 20 31

0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.0

1973 304 20 31

0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.0

1973 304 20 31

0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.0

1973 304 20 31

0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.557E+05 0.0 0.0

1973 304 20 31

0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

TRADE AND INVESTMENT

FILE NO. 1  
TAPE NO. 1

RECORD 9965 LENGTH 389

2 1975 51 13 19 14 8

2 0.661E+05 0.127E+02 0.119E+02 0.694E

775 51 13 29 12 8 1 0.582

+ 05 0.129E+02 0.121E+02 0.694E+05-0.10

\*\*\*\*\* 103 DONE.

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REQ. AGENT

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CMW

ACQ. AGENT

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JHK

IMP-J

FINE RESOLUTION PLASMA DATA FROM MIT

73-078A-02L

This data set consists of 8 magnetic tapes. The tapes were written on 9-track, 6250 bpi, in ASCII format, and labeled. The backup "C" tape is a low density 8mm cartridge, containing all 223 files. The first 3 physical files on each "D" tapes are the README documentations. The D and C numbers and time spans are as follows:

D#	C#	FILES	LABEL	TIME SPAN
-----	-----	-----	-----	-----
D-108257		36	FR73-5	11/04/73 - 12/30/75
D-108258		37	FR76-8	01/03/76 - 12/13/78
D-108259		24	FR7981	01/12/79 - 12/31/81
D-108260		22	FR82-4	01/01/82 - 12/31/84
D-108261		29	FR85-7	01/01/85 - 12/31/87
D-108262		32	FR8890	01/01/88 - 12/31/90
D-108263		29	FR9193	01/01/91 - 12/31/93
D-108264		14	FR9495	01/01/94 - 05/05/95
C-032362		223	FR-IMP	11/04/73 - 05/05/95

## IMP-J Fine Resolution Plasma Data from MIT

Word	Format	Definition
1	I1X,1I1	mode of instrument (2=tracking)
2	I5	year
3	I4	day of year (January 1 = 1)
4	I3	hour
5	I3	minute
6	I3	second
7	2X,F14.7,5X	decimal year
8	F8.2	spacecraft position in: xse
9	F8.2	" " ":" yse
10	F8.2	" " ":" zse
11	F8.2	" " ":" ysm
12	F8.2	" " ":" zsm
13	1X,F7.1*	speed (km/s)##
14	1X,F7.1*	Vx (x-component of velocity, km/s)
15	1X,F7.1*	Vy (y-component of velocity, km/s)##
16	1X,F7.1*	Vz (z-component of velocity, km/s)
17	1X,F6.1**	thermal speed (km/s)
18	1X,F6.1**	density (#/cc)
19	1X,G10.3***	E/W angle (degrees)##
20	1X,G10.3***	N/S angle (degrees ##)

\* if value = +/-9999., format is 1X,F7.0

\*\* if value = +/-9999., format is 1X,F6.0

\*\*\* if value = +/-9999., format is 1X,G10.4

# aberration due to Earth's motion is removed

## computed using Vx, Vz, and the aberration-corrected Vy

These data were retrieved from MIT via FTP by NSSDC. They are in files on VAX labeled tapes. The files contain ASCII records arranged in columns, with headings at the top of each file. The following notes (1-10) are taken directly from MIT's World Wide Web site.

1) These are only our 'best' parameters. A value of 9999. means that we couldn't calculate them. If you're desperate, we can give you less accurate parameters for specific times, but caveat emptor... The parameters are based on a convected, isotropic Maxwellian model.

2) We use the convention Jan. 1 = DOY 1. Please note that the decimal year is double precision, e.g. 1994.xxxxxxx where xxxxxxx is fraction of year.

- 3) All velocity coordinates are in GSE, meaning +x toward Sun, +z towards the North, perpendicular to the (Earth's) ecliptic, y for a right-hand system (+y in the direction opposite to Earth's motion). Everything is in km/s. Effects due to the orbital motion of Earth are removed.
- 4) Thermal speed is the most probable thermal speed (i.e., the square root of  $[2kT/m(\text{proton})]$ ). To convert thermal speed to temperature in eV, multiply 0.0052 by the square of the thermal speed.

[To convert to temperature in degrees Kelvin, multiply 60.5 by the square of the thermal speed - NSSDC/JHK]
- 5) The angles are in degrees. Azimuth is E/W, with each meaning 'from the (E/W)', while elevation is N/S with the same meaning. For signs, positive azimuth angle means flow from the W; positive elevation angle means flow from the S. If we don't get good angles, you don't get any velocity components. Fine resolution data for the speed, velocity components and angles are not available in these cases. The aberration in velocity due to Earth's motion around the Sun has been removed.
- 6) The spacecraft trajectory values ( $x_{\text{se}}$ ,  $y_{\text{se}}$ ,  $z_{\text{se}}$ ,  $ysm$ ,  $zsm$ ) are in units of Earth radii.
- 7) The field labeled "md" refers to the spacecraft mode and is probably unimportant to you.
- 8) For papers and presentations using these data, please acknowledge that you received them from the MIT Space Plasma Physics Group. Please feel free to contact us if you have questions about any parameters.
- 9) Please send us a copy of papers, presentations, et cetera using these data.
- 10) If you have any questions, please contact

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[kip@space.mit.edu](mailto:kip@space.mit.edu)    Dr. Alan J. Lazarus    [ajl@space.mit.edu](mailto:ajl@space.mit.edu)

A-108361  
Regional Tide;

ASCII LIST 0E b1014

FILE 11 RECORD 1 18300 BYTES

BYTES

.78	-4.41	1.33	-4.35	1.52	699.4	-681.0	-32.9	-155.6	69.5	4.6	-2.77	-12.			
9	0187 2	1985	1	14.12	27	1985.0016219	32.78	-4.39	1.34	-4.34	1.52	-688.1	-192.4		
43.0	2.9	-2.19	-15.6	0187 2	1985	1	14.13	0	1985.0016229	715.0	-26.3	32.78	-4.39		
-4.33	1.52	695.5	-679.7	-26.6	-144.9	54.6	3.9	-4.32	-2.24	-12.0	0187 2	1985	1.34		
4 13 59	1.92	32.79	-4.38	1.34	-4.32	1.52	54.6	-672.4	-22.6	-201.5	32.78	-4.39	1.34		
.2	-1.93	-16.7	0187 2	1985	1	14.16	0	1985.0016286	702.3	-22.6	-201.5	61.3	-160.5	1 1	
700.1	-685.2	-22.6	-142.2	61.6	4.1	-1.89	-1.89	-11.7	32.79	-4.36	1.36	61.3	-153	4	
5	32.80	-4.33	1.37	-4.28	1.53	686.3	-673.3	-26.0	-130.1	58.5	4.0	0187 2	1985	1 1985.001632	
-125.9	-10.9	0187 2	1985	1	14.19	2	1985.0016344	32.80	-4.32	1.37	-4.27	1.53	677.0	-664.9	-18.3
1.39	-4.24	67.5	4.4	-1.58	-1.58	-10.7	0187 2	1985	1	14.22	8	1985.0016403	32.81	-4.29	
1985	1	14.23	7	1985.0016422	32.82	-4.28	-148.8	65.8	4.4	-2.43	-12.6	0187 2	1985	1 1985.0016432	
4.3	-1.59	-12.2	0187 2	1985	1	14.25	12	1.54	-687.7	-671.9	-18.6	-145.4	62.3	-153	
55	668.5	-662.8	-28.4	-82.7	62.6	4.4	-2.45	-2.45	32.82	-4.26	1.41	-4.21	1.	-2.21	
1985.0016524	32.84	-4.22	1.43	-4.18	62.6	4.4	-674.8	-25.5	-138.4	-7.11	0187 2	1985	1 14.28		
-2.17	-25.1	-170.4	60.2	0187 2	1985	1	14.31	31	1985.0016581	32.85	-4.19	1.45	-4.15	1.56	4.5
.6	-4.18	1.46	-4.14	1.57	4.0	-2.14	-14.2	0187 2	1985	1	14.32	30	1985.0016600	32	
1	0187 2	1985	1	14.33	30	1985.0016619	32.85	-4.17	1.46	-4.13	1.57	59.0	4.3	-2.59	-15.
61.1	3.6	-1.95	-14.1	0187 2	1985	1	14.35	31	1985.0016657	718.3	-696.2	-23.7	-23.7	-175.2	-15.
-4.11	1.57	694.5	-672.8	-26.2	-170.3	71.7	4.3	-4.10	-2.23	-14.2	0187 2	1985	1 1.47		
4 36 30	1985.0016676	32.86	-4.13	1.48	-4.10	1.58	682.2	-4.6	-154.2	63.2	1.58	32.86	-4.14	1.47	
0	-0.384	-12.7	0187 2	1985	1	14.37	30	1985.0016695	32.87	-4.12	1.49	-4.09	63.2	5	
696.2	-672.6	-20.1	-178.8	62.0	4.0	-1.71	-1.71	-14.9	0187 2	1985	1	14.38	29	1985.001671	
4	32.87	-4.11	1.49	-4.08	1.58	707.9	-685.4	-22.4	56.1	3.7	-1.87	-706.3	-2.1		
-192.2	-14.4	0187 2	1985	1	14.40	32	1985.0016753	32.88	-4.09	1.50	-4.06	1.58	0187 2	1985	1 016790
1.52	-4.04	58.7	3.9	-0.166	-0.166	-15.2	0187 2	1985	1	14.42	30	1985.0016790	32.88	-4.07	
1985	1	14.43	29	1.59	701.6	-675.5	-10.0	-189.6	60.6	3.9	-0.845	15.7	0187 2	1985	1 016809
3.8	-2.04	-2.04	-12.2	0187 2	1985	1	14.46	0	1985.0016857	710.8	-694.2	-24.7	-150.8	47.5	-11.
60	702.8	-681.9	-27.2	-168.2	59.1	3.9	-2.29	-2.29	-13.8	32.89	-4.03	1.54	-4.01	1.	
1985.0016876	32.90	-4.02	1.54	-4.00	1.60	-15.2	0187 2	1985	1	14.42	30	1985.0016790	32.88	-4.07	
-1.23	-10.6	0187 2	1985	1	15.7	59	1985.0017275	32.97	-3.79	1.67	-3.80	1.66	0187 2	1985	1 01689.5
.1	31.6	-182.7	56.0	4.2	2.73	-2.73	-15.4	0187 2	1985	1	15.9	34	1985.0017305	32	
.97	-3.77	1.68	-3.78	1.66	672.1	-658.7	26.6	-130.9	53.9	3.7	2.31	-23.9	-155.7		
2	0187 2	1985	1	15.11	35	1985.0017344	32.98	-3.75	1.69	-3.76	675.8	-657.2	32.98	-3.73	
-3.74	1.67	704.9	-668.9	24.9	-220.8	-13.3	0187 2	1985	1	15.13	37	0187 2	1985	1 01744	
65.9	4.0	-2.08	-2.08	61.4	4.3	-13.5	0187 2	1985	1	15.13	37	15.16	43	1.70	
5 14 39	1985.0017402	32.99	-3.72	1.71	-3.73	1.68	61.4	-674.5	2.13	61.1	4.4	-0.573	1.70	-664	
.3	1.67	67.3	4.0	-2.39	-2.39	1.68	61.4	-3.67	1.67	3.71	-18.3	1985.0017520	32.98	-3.65	
685.7	-666.5	14.5	-160.5	58.1	4.5	1.25	-13.5	0187 2	1985	1	15.16	43	1985.001744	32.98	-3.65
1	32.99	-3.70	1.72	-3.71	1.68	698.5	-676.1	-6.8	-175.4	2.13	-18.3	0187 2	1985	1 01744	
-195.8	0187 2	1985	1	15.18	49	1985.0017481	33.00	-3.67	1.73	-3.70	1.69	701.3	-672.9	-28.1	
1	7.75	-3.68	1.70	709.6	-677.5	38.8	-207.4	56.6	4.1	3.28	3.28	0187 2	1985	1 01744	
1985	1	15.21	49	1985.0017538	33.01	-3.64	1.75	-3.67	1.70	-673.3	31.7	-214.7	58.5	-58.5	
.16	4.5	2.69	-2.69	-17.7	0187 2	1985	1	15.22	49	1985.0017557	33.01	-3.63	1.76	-3.66	1.
70	722.4	-685.2	34.5	-226.2	52.6	3.7	2.89	-2.89	58.2	4.1	-0.619	15.23	48		
1985.0017576	33.02	-3.62	1.76	-3.65	52.6	3.7	2.89	-2.89	58.2	4.1	0187 2	1985	1 017576		
2.45	-17.6	0187 2	1985	1	15.33	32	1985.0017761	33.05	-3.51	1.82	-3.56	58.4	4.2	-660	
.7	39.1	-182.8	60.2	4.6	3.39	-3.67	1.70	-3.67	1.70	0187 2	1985	1 01772	1985	1 1 01772	
16	-3.12	2.04	-3.23	60.2	-17.7	0187 2	1985	1	15.22	49	1985.0017557	33.01	-3.63	1.76	-3.66
8	0187 2	1985	1	16.13	18	1985.0018518	33.17	-3.68	2.06	-3.20	1.87	810.7	-794.6	-160.5	
2.45	-17.6	0187 2	1985	1	15.33	32	1985.0017761	33.05	-3.51	1.82	-3.56	58.4	4.2	-660	
-3.19	70.4	3.8	-0.742	-11.4	0187 2	1985	1	16.14	49	4.6	-1.73	33.17	-3.07	-2.07	
6 16 48	1.88	712.0	-698.5	-21.1	-136.4	70.8	4.1	-1.73	-1.73	-11.0	0187 2	1985	1 1 01872		
.8	0.469	33.18	-3.04	2.08	-3.17	1.89	4.1	-674.0	690.1	5.5	-147.9	57.8	4.2	-660	
591.5	-669.8	24.5	-170.2	12.4	0187 2	1985	1	16.19	57	33.19	-3.01	2.10	-3.15	1.90	
2	33.19	-2.99	2.11	-3.13	51.8	4.1	2.09	-14.2	0187 2	1985	1	16.21	57	4.9	2.72
-10.5	0187 2	1985	1	16.22	56	1985.0018701	33.20	-2.98	-158.7	31.3	-158.7	57.7	1.91	660.4	56.7